

ABSTRACT

An input device such as a mouse, track ball or joystick that has a rotatable element for scrolling a graphical display presented on an apparatus. The rate of scrolling of the graphical display is constant and independent of the rate of rotation of the rotatable element. The input device further comprises a motion signal generator, a motion signal interpreter and a software driver. The motion signal generator detects motion of the rotatable element and generates motion signals. The motion signal interpreter checks for generation of motion signals within predetermined periods of time. If at least one motion signal is detected within the predetermined period of time the motion signal interpreter generates one output signal at the end of the predetermined period of time. When the software driver receives an output signal, the software driver generates a line scrolling command to scroll the graphical display.